

**Abstract:**

Multilayer composite for combustion chambers or nozzles  
of missiles, comprising an interior layer in contact with  
5 the combustion gases and an outer layer, wherein the  
interior layer is a fiber-reinforced ceramic whose matrix  
comprises phases of carbon and/or phases of silicon  
carbide and the outer layer is a polymer reinforced with  
carbon fibers, process for producing the same and  
10 combustion chambers and nozzles for missiles made of this  
composite